PATENT COOPERATION TREATY

PCT

REC'D 1 0 MAR 2005

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

pplicant's or agent's file reference S 6417 PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
ternational application No.	International filing date (day/month/year) 12.12.2003	Priority date (day/month/year) 12.12.2002
ternational Patent Classification (IPC) 21B4/00	or both national classification and IPC	
	SEARCH MAATSCHAPPIJ B.V.	
. This international preliminary Authority and is transmitted to	examination report has been prepared by to the applicant according to Article 36.	his International Preliminary Examining
2. This REPORT consists of a t	otal of 4 sheets, including this cover sheet.	•
☐ This report is also according to the peen amended and are (see Rule 70.16 and S	ompanied by ANNEXES, i.e. sheets of the d the basis for this report and/or sheets cont ection 607 of the Administrative Instructions	lescription, claims and/or drawings which have taining rectifications made before this Authority s under the PCT).
These annexes consist of a	total of sheets.	
	ons relating to the following items:	
) 🛛 Basis of the opin	nion	
Priority	ent of opinion with regard to novelty, invent	ive step and industrial applicability
-		
IV ☐ Lack of unity of V ☒ Reasoned state	ment under Rule 66.2(a)(ii) with regard to nucleicate the regard to nucleicate supporting such statement	novelty, inventive step or industrial applicability;
VI		
	in the international application	
VIII	ations on the international application	
Date of submission of the demand	Date of com	pletion of this report
Date of submission of the demand		
09.07.2004	09.03.200	
	ternational Authorized	Officer Prince
Name and mailing address of the ir preliminary examining authority:	1	* M
Name and mailing address of the ir preliminary examining authority: European Patent Off D-80298 Munich Tel. +49 89 2399 - 0	ott, S	No. +49 89 2399-7429

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/50991

 Basis of the repo 	rt
---------------------------------------	----

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		Down		
		ription, Pages	as originally filed	
	1-14		as ongman,	
	Clain	ns, Numbers		
	1-14		as originally filed	
	Drav	vings, Sheets	as originally filed	
	1/3-3	3/3		
2.	With	regard to the languag	ge, all the elements marked above were available or furnished to this Authority in the rnational application was filed, unless otherwise indicated under this item.	
	Tho	se elements were avail	lable or furnished to this Authority in the following language: , which is:	
		the language of a tran	slation furnished for the purposes of the international search (under Rule 23.1(b)).	
		مالمان ب	estion of the international application (under Rule 48.3(b)).	
		the language of a tran	nslation furnished for the purposes of international preliminary examination (and si	
		D.J. EE 2 and/01 hh 3	.9	
3	. With	h regard to any nucleo rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:	
		contained in the inter	national application in written form.	
		filed together with the	e international application in computer readable form.	
		furnished subsequently to this Authority in written form.		
			Abute this Authority in computer readable form.	
		The statement that the	he subsequently furnished written sequence listing does not go beyond the discless.	
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the writer social to	
4. The amendments have resulted in the cancellation of:				
		the description,	pages:	
			Nos.:	
		the drawings,	sheets:	

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/50991

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

4, 7-11

1-3, 5, 6, 12-14 No: Claims

Inventive step (IS)

Yes: Claims

No: Claims 1-14

Industrial applicability (IA)

Yes: Claims

1-14

Claims No:

2. Citations and explanations

see separate sheet

POINT V

V-1. D1: US-4729675 discloses a system for use in a bore hole, such as a well bore, for axially coupling a tubular end (23) with a mandrel (42), the system comprising a tubular end, a mandrel for inserting into the tubular end in axial alignment thereof, thereby forming an annular space and that comprises two or more transmission units (66, 76) each being arranged for axially coupling the tubular end with the mandrel (see also explanation below), wherein the transmission units each comprise a first fixture element (66, 76), a second fixture element (89, 100), and spacer means (61, 96, 98) for maintaining an axial displacement between the first fixture element and the second fixture element, whereby the first fixture element is axially connectable to an inner surface of the tubular end and the second fixture element is axially connectable with the mandrel.

The subject-matter of claim 1 does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.

The Belleville spring (58) compresses the various ball bearing race members toward each other with spacer sleeves (64), (70), (75) and (78) fixing the bearing races in selected positions (see D1, description col.5, l.40-43). The assembly comprising the elements (23), (56), (58), (59), (64), (66), (70), (71), (75), (76), (78) and (34) therefore forms one rigid assembly which is only disrupted in the exceptional case of ball failure (see description col.8, l.15-30). The same applies to the mandrel (42) and its corresponding sleeve elements. In normal circumstances, the transmission units (66) and (76) are therefore each arranged for axially coupling the tubular end with the mandrel.

- V-2. D1 also discloses the subject-matter of claims 2, 3, 5, 6, 12, 13 and 14. The subject-matter of said claims does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.
- V-3. Dependent claims 4, 7-11 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step in the sense of Art. 33(3) PCT.